

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P263580

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2643.9 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

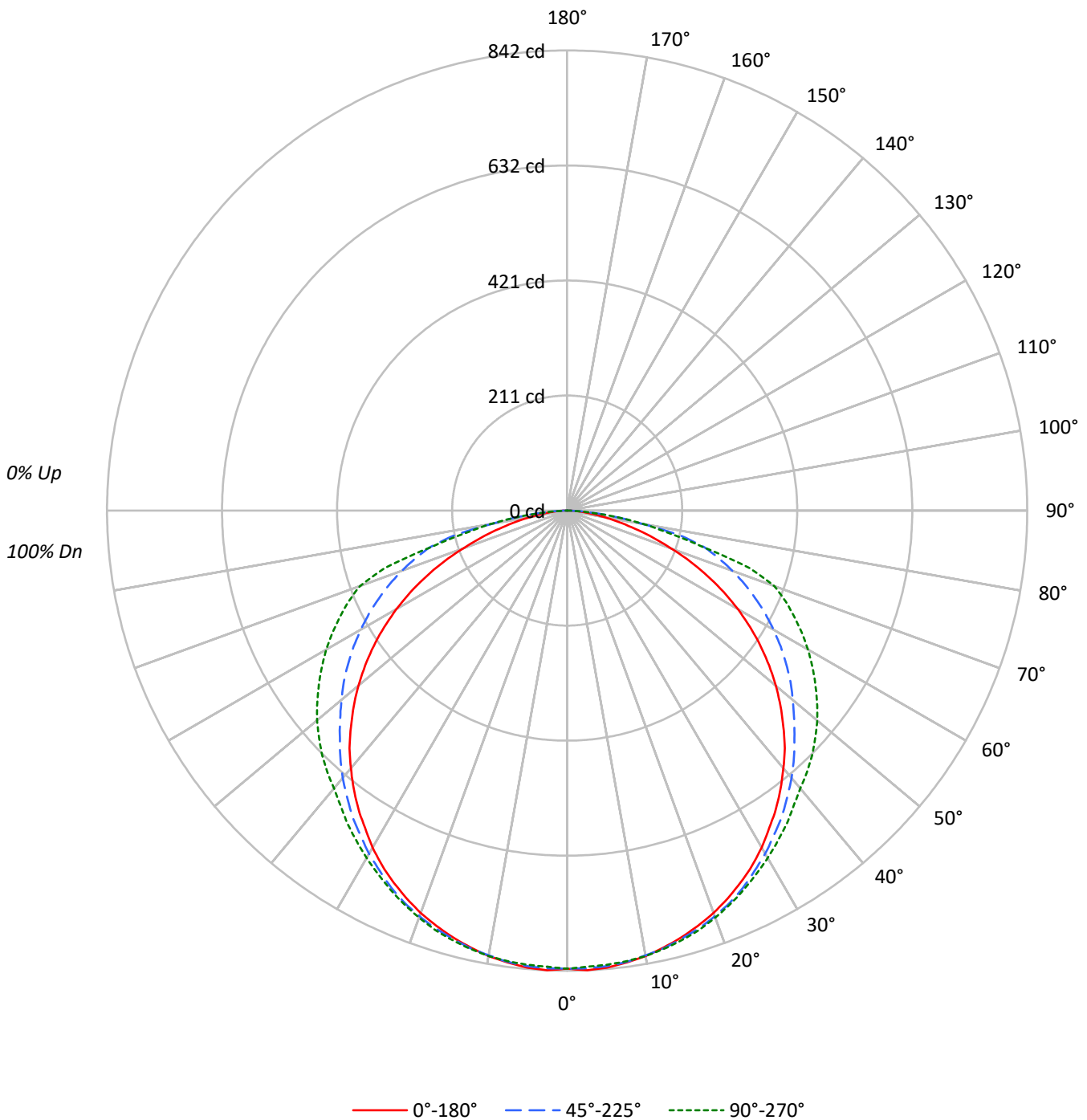
Input Watts (W): 29.459424
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1128	1128	1128
5°	1134	1130	1127
10°	1131	1129	1131
15°	1126	1129	1133
20°	1122	1131	1135
25°	1115	1130	1136
30°	1106	1126	1140
35°	1094	1124	1150
40°	1081	1122	1166
45°	1065	1119	1206
50°	1043	1128	1250
55°	1014	1148	1301
60°	970	1173	1369
65°	903	1210	1458
70°	799	1265	1587
75°	670	1353	1333
80°	535	1069	1110
85°	421	724	662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.0
10°-20°	228.8	8.7
20°-30°	349.4	13.2
30°-40°	427.2	16.2
40°-50°	457.3	17.3
50°-60°	438.6	16.6
60°-70°	370.4	14.0
70°-80°	236.7	9.0
80°-90°	56.0	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	657.7	24.9
0°-40°	1084.9	41.0
0°-60°	1980.9	74.9
0°-90°	2643.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2643.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	839	834	837	836	834	80
15°	808	806	811	813	813	228
25°	751	750	761	764	765	346
35°	666	672	685	694	700	417
45°	560	569	588	616	634	432
55°	432	446	489	534	554	386
65°	284	311	380	433	458	280
75°	129	184	260	266	256	139
85°	27	46	47	46	43	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	838.1	838.1	838.1	838.1	838.1
2.5°	842.0	836.8	838.1	838.1	835.5
5°	839.4	834.2	836.8	835.5	834.2
7.5°	834.2	830.3	832.9	832.9	831.6
10°	827.7	823.8	826.4	827.7	827.7
12.5°	818.6	816.0	819.9	819.9	821.2
15°	808.2	805.6	810.8	813.4	813.4
17.5°	796.5	795.2	801.7	803.0	804.3
20°	783.5	782.2	790.0	790.0	792.6
22.5°	767.9	766.6	777.0	777.0	779.6
25°	750.9	749.6	761.4	764.0	765.3
27.5°	732.7	731.4	743.1	747.0	749.6
30°	711.9	711.9	724.9	730.1	734.0
32.5°	688.5	692.4	704.1	711.9	717.1
35°	666.3	671.6	684.6	693.7	700.2
37.5°	641.6	646.8	661.1	672.9	680.7
40°	615.6	622.1	639.0	652.0	663.7
42.5°	589.6	596.1	614.3	633.8	649.4
45°	559.6	568.7	588.3	615.6	633.8
47.5°	529.7	538.8	563.5	597.4	615.6
50°	498.5	508.9	538.8	577.8	597.4
52.5°	465.9	477.6	515.4	557.0	576.5
55°	432.1	446.4	489.3	533.6	554.4
57.5°	396.9	412.6	463.3	510.2	532.3
60°	360.5	380.0	436.0	485.4	508.9
62.5°	322.8	346.2	408.7	459.4	484.1
65°	283.7	311.0	380.0	433.4	458.1
67.5°	243.4	279.8	351.4	407.4	432.1
70°	203.0	246.0	321.5	378.7	403.5
72.5°	165.3	214.7	291.5	344.9	350.1
75°	128.8	183.5	260.3	265.5	256.4
77.5°	96.3	152.3	214.7	191.3	190.0
80°	69.0	122.3	138.0	141.9	143.2
82.5°	45.6	92.4	89.8	92.4	91.1
85°	27.3	45.6	46.9	45.6	42.9
87.5°	13.0	16.9	13.0	11.7	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)